CLAIMS

What is claimed is:

- 1. A polarizer comprising a moth-eye structure including peaks and valleys and a light-transmissive inhibiting surface covering at least some of the valleys.
- 2. The polarizer of Claim 1, further comprising a conductive coating disposed on the light-transmissive inhibiting surface in at least some of the valleys.
- 3. The polarizer of Claim 2, further comprising a substantially transparent coating disposed on the polarizer.
- 4. The polarizer of Claim 1, wherein the light-inhibiting surface has a thickness of about 500 angstroms.
- 5. A method for forming a polarizer, comprising:
 - a) providing a moth-eye structure including peaks and valleys; and
 - b) forming a light-transmissive inhibiting surface on at least some of the valleys.
- 6. The method of Claim 5, further comprising forming a conductive coating on the light-transmissive inhibiting surface.
- 7. The method of Claim 6, further comprising forming a substantially transparent coating on the polarizer.
- 8. The method of Claim 5, wherein the polarizer is formed by first forming the light-transmissive inhibiting surface over substantially all of the peaks and the

valleys and forming a conductive coating on the inhibiting surface, the method further including removing the light-transmissive inhibiting surface and conductive coating adjacent the peaks.

- 9. A polarizer comprising at least one subwavelength optical microstructure including an undulating surface that includes a light-transmissive inhibiting surface in at least some low areas of the microstructure.
- 10. The polarizer of Claim 9, further comprising a conductive coating disposed on at least part of the light-transmissive inhibiting surface.
- 11. A polarizer comprising a moth-eye structure including peaks and valleys and a light-transmissive inhibiting surface covering at least some of the peaks.
- 12. The polarizer of Claim 11, further comprising a substantially transparent coating provided on the moth-eye structure and the light-transmissive inhibiting surface.
- 13. A polarizer comprising at least one subwavelength optical microstructure including an undulating surface that includes a light-transmissive inhibiting surface in at least some raised areas of the microstructure.
- 14. A polarizer comprising a moth-eye structure including peaks and valleys and a conductive material disposed in at least some of the valleys.
- 15. The polarizer of Claim 14, wherein the conductive material includes a plurality of conductive particles.
- 16. The polarizer of Claim 15, further comprising a substantially transparent coating provided on the polarizer.

- 17. The polarizer of Claim 15, wherein the particles include nanoparticles.
- 18. The polarizer of Claim 15, wherein the particles are about 0.2 micrometer or smaller in size.
- 19. The polarizer of Claim 15, wherein the particles include silver, aluminum, titanium dioxide, or a combination thereof.
- 20. The polarizer of Claim 15, wherein a magnetic device is used to position the particles in at least some of the valleys.
- 21. The polarizer of Claim 14, wherein the conductive material includes conductive filler.
- 22. The polarizer of Claim 14, wherein the conductive material includes a plurality of conductive fibers.
- 23. The polarizer of Claim 14, further comprising a substantially transparent coating on the polarizer.
- 24. A polarizer comprising at least one subwavelength optical microstructure including an undulating surface that includes a conductive material disposed in at least some low areas of the microstructure.
- 25. A method for forming a polarizer, comprising:
 - a) providing a moth-eye structure including peaks and valleys; and
 - b) forming a conductive material in at least some of the valleys.

- 26. A polarizer comprising a moth-eye structure including peaks and valleys and an opaque filler disposed in at least some of the valleys.
- 27. The polarizer of Claim 26, further comprising a substantially transparent coating disposed on the polarizer.
- 28. A polarizer comprising a moth-eye structure including peaks and valleys, at least some of the peaks including a conductive material.
- 29. The polarizer of Claim 28, wherein the conductive material includes a plurality of conductive particles.
- 30. The polarizer of Claim 28, wherein the conductive material includes conductive resin that forms at least part of at least some of the peaks.
- 31. The polarizer of Claim 28, further comprising a substantially transparent coating disposed on the polarizer.
- 32. A method for forming a polarizer, comprising:
 - a) providing a resin on a mold that forms a moth-eye structure having peaks and valleys;
 - b) providing a plurality of particles in the resin; and
 - c) curing the resin to form the moth-eye structure, the particles being disposed within at least some of the peaks of the moth-eye structure.
- 33. The method of Claim 32, further comprising providing a substantially transparent coating on the polarizer.